CONTENTS OF VOLUME 87

NO. 1, JULY 1984

ALIMENTARY TRACT

A Diagnostic Score for the Irritable Bowel Syndrome. Its Value in the Exclusion of Organic Disease	W. KRUIS, Ch. THIEME, M. WEINZIERL, P. SCHÜSSLER, J. HOLL, AND W. PAULUS	1
Effects of Acute Experimental Esophagitis on Mechanical Properties of the Lower Esophageal Sphincter	P. BIANCANI, K. BARWICK, J. SELLING, AND R. McCALLUM	8
Proteinase Activities of *Entamoeba histolytica* Cytotoxin	W.B. LUSHBAUGH, A.F. HOFBAUER, AND F.E. PITTMAN	17
Regional Gastric Mucosal Blood Flow Measurements by Hydrogen Gas Clearance in the Anesthetized Rat and Rabbit	F.W. LEUNG, P.H. GUTH, O.U. SCREMIN, E.M. GOLAŃSKA, AND G.L. KAUFFMAN, JR.	28
Carcinoma of the Head of the Pancreas. Therapeutic Implications of Endoscopic Retrograde Cholangiopancreatography Findings	G.A.J.J. NIX, P.I.M. SCHMITZ, J.H.P. WILSON, M. Van BLANKENSTEIN, C.F.M. GROENEVELD, AND R. HOFWIJK	37
Protease-Specific Suppression of Pancreatic Exocrine Secretion	J. SLAFF, D. JACOBSON, C.R. TILLMAN, C. CURINGTON, AND P. TOSKES	44
Randomized Trial of Total Parenteral Nutrition in Critically Ill Patients: Metabolic Effects of Varying Glucose-Lipid Ratios as the Energy Source	J.P. BAKER, A.S. DETSKY, S. STEWART, J. WHITWELL, E.B. MARLISS, AND K.N. JEEJEEBHOY	53
Hepatic Clearance of Gastrin and Cholecystokinin Peptides	J.W. DOYLE, M.M. WOLFE, AND J.E. McGUIGAN	60
Effect of Traumatic Spinal Cord Transection on Human Upper Gastrointestinal Motility and Gastric Emptying	R.D. FEALEY, J.H. SZURSZEWSKI, J.L. MERRITT, AND E.P. DiMAGNO	69
Relationship Between Porcine Motilin-Induced Migrating Motor Complex-Like Activity, Vagal Integrity, and Endogenous Motilin Release in Dogs	K.E. HALL, G.R. GREENBERG, T.Y. EL-SHARKAWY, AND N.E. DIAMANT	76
Effects of Carbachol on Gastrin and Somatostatin Release in Rat Antral Tissue Culture	M.M. WOLFE, D.K. JAIN, G.M. REEL, AND J.E. McGUIGAN	86
Corticotropin Releasing Factor-Like Peptides Produce Selective Dilatation of the Dog Mesenteric Circulation	K.L. MacCANNELL, P.L. HAMILTON, K. LEDERIS, C.A. NEWTON, AND J. RIVIER	94
Role of Submandibular Saliva and Epidermal Growth Factor in Gastric Cytoprotection	P.SKOV OLSEN, S.S. POULSEN, P. KIRKEGAARD, AND E. NEXØ	103
Sham Feeding and Pancreatic Secretion. Evidence for Direct Vagal Stimulation of Enzyme Output	A. ANAGNOSTIDES, V.S. CHADWICK, A.C. SELDEN, AND P.N. MATON	109
Characteristics of Colorectal Carcinoma Cells With High Metastatic Potential	R.S. BRESALIER, C.R. BOLAND, AND Y.S. KIM	115
Prospective Evaluation of Metabolic Bone Disease After Jejunoileal Bypass	J.H. SELLIN, S.C. MEREDITH, S. KELLY, H. SCHNEIR, AND I.H. ROSENBERG	123

LIVER AND BILIARY TRACT

Effect of Urosodeoxycholate and Its Taurine Conjugate on Bile Acid Synthesis and Cholesterol Absorption	W.G.M. HARDISON AND S.M. GRUNDY	130
Differences in the Effects of Chenodeoxycholic and Ursodeoxycholic Acid on Biliary Lipid Secretion and Bile Acid Synthesis in Patients With Gallstones	K. von BERGMANN, M. EPPLE-GUTSFELD, AND O. LEISS	136
Effect of Three Different Dihydroxy Bile Acids on Intestinal Cholesterol Absorption in Normal Volunteers	O. LEISS, K. von BERGMANN, U. STREICHER, AND H. STROTKOETTER	144

Dissolution of Human Cholesterol Gallstones in Simulated Chenodeoxycholate-Rich and Ursodeoxycholate-Rich Biles. An In Vitro Study of Dissolution Rates and Mechanism	Y-H. PARK, H. IGIMI, AND M.C. CAREY	150
Low Molecular Weight (7s) Immunoglobulin M Antibody Against Hepatitis B Core Antigen in the Serum for Differentiating Acute From Persistent Hepatitis B Virus Infection	F. TSUDA, S. NAITO, E. TAKAI, Y. AKAHANE, S. FURUTA, Y. MIYAKAWA, AND M. MAYUMI	159
Effects of Experimental Cirrhosis on Splanchnic Microvascular Fluid and Solute Exchange in the Rat	J.A. BARROWMAN AND D.N. GRANGER	165
Studies on the Origins of Biliary Immunoglobulins in Rats	R.J. MANNING, P.G. WALKER, L. CARTER, P.J. BARRINGTON, AND G.D.F. JACKSON	173
Fat Digestion and Exocrine Pancreatic Function in Primary Biliary Cirrhosis	E. ROS, A. GARCÍA-PUGÉS, M. REIXACH, E. CUSÓ, AND J. RODÉS	180
Alcoholic Liver Injury in Baboons: Transformation of Lipocytes to Transitional Cells	K.M. MAK, M.A. LEO, AND C.S. LIEBER	188
CASE REPORTS		
Esophageal Cryptococcosis in a Patient With the Hyperimmunoglobulin E-Recurrent Infection (Job's) Syndrome	D.H. JACOBS, A.M. MACHER, R. HANDLER, J.E. BENNETT, M.J. COLLEN, AND J.I. GALLIN	201
Hiccups Associated With Reflux Esophagitis	S.S. SHAY, R.L. MYERS, AND L.F. JOHNSON	204
Restoration of Portal Venous Perfusion and Reversal of Encephalopathy by Balloon Occlusion of Portal Systemic Shunt	J.R. POTTS, III, J.M. HENDERSON, W.J. MILLIKAN, JR., P. SONES, AND W.D. WARREN	208
Systemic Absorption of Oral Cholestyramine	G.B. McDONALD AND R. VRACKO	213
Giant Lymph Node Hyperplasia (Castleman's Disease) of the Mesentery. Observations on the Associated Anemia	I. BJARNASON, P.M. COTES, S. KNOWLES, C. REID, R. WILKINS, AND T.J. PETERS	216
EDITORIALS		
Diagnosis of the Irritable Bowel Syndrome. A Simple Solution?	D.A. DROSSMAN	224
Energy Sources for Total Parenteral Nutrition Patients: Would Sugar Suffice?	R.E. CLOUSE AND D.H. ALPERS	226
Peptides, Sulfhydryls, and Glucocorticoids in Gastric Mucosal Defense: Coincidence or Connection?	S. SZABO	228
Gallstone Dissolution and the Cholesterol–Bile Acid–Lipoprotein Axis. Propitious Effects of Ursodeoxycholic Acid	H. FROMM	229
The Intestinal Immune System: A Time for the Reaper	A.L. JONES	234
SELECTED SUMMARIES		
Bile Canaliculus Proteins		238
SAMe Modulates Bile Flow in Estrogen-Induced Cholestasis		239
Medical Dissolution of Gallstones: Is Partial Dissolution Always Followed by Complete Dissolution?		239
Can IgA Mediate Lymphocyte Killing of Bacteria in the Gut?		240
Aggressive and Nonaggressive *Entamoeba histolytica*		241

Of Fibers, Taeniae, and Haustrae 242
Reply to Selected Summary: Colonoscopy and Diverticula (GASTROENTEROLOGY 1984;86:1620–1) 243
Reply to Selected Summary: Gastric Stump Cancer (GASTROENTEROLOGY 1984;86:993–4) 243
243
BOOK REVIEWS 244
CORRESPONDENCE 248
NOTICES 256
CLASSIFIED ADS 256

NO. 2, AUGUST 1984

LIVER AND BILIARY TRACT

Effects of Histamine Receptor Stimulation on Diseased Gallbladder and Cystic Duct — F. LENNON, T.M. FEELEY, A.S. CLANACHAN, AND G.W. SCOTT — 257

Cyclic Nucleotides and Glycoproteins During Formation of Cholesterol Gallstones in Prairie Dogs — R.A. ZAK, P.G. FRENKIEL, J.W. MARKS, G.G. BONORRIS, A. ALLEN, AND L.J. SCHOENFIELD — 263

Human Gallbladder Mucin Accelerates Nucleation of Cholesterol in Artificial Bile — P.F. LEVY, B.F. SMITH, AND J.T. LaMONT — 270

Transformation of 4-Cholesten-3-one and 7α-Hydroxy-4-cholesten-3-one Into Cholestanol and Bile Acids in Cerebrotendinous Xanthomatosis — G. SALEN, S. SHEFER, AND G.S. TINT — 276

Modulation of the Stimulatory Effect of Pregnenolone-16α-carbonitrile on Biliary Cholesterol Output in the Rat by Manipulation of the Rate of Hepatic Cholesterol Synthesis — S.D. TURLEY AND J.M. DIETSCHY — 284

Efficacy of Hepatitis B Immune Globulin in Prevention of Perinatal Transmission of the Hepatitis B Virus — P.V. NAIR, J.Y. WEISSMAN, M.J. TONG, M.W. THURSBY, R.H. PAUL, AND C.E. HENNEMAN — 293

Influence of Gallstones and Urosdeoxycholic Acid Therapy on Gallbladder Emptying — I.C. FORGACS, M.N. MAISEY, G.M. MURPHY, AND R.H. DOWLING — 299

Influence of Sex and Sex Steroids on Bilirubin Uridine Diphosphate-Glucuronosyltransferase Activity of Rat Liver — M. MURACA AND J. FEVERY — 308

ALIMENTARY TRACT

Symptom Complaints and Health Care Seeking Behavior in Subjects With Bowel Dysfunction — R.S. SANDLER, D.A. DROSSMAN, H.P. NATHAN, AND D.C. McKEE — 314

Fecal Fat Concentration in Patients With Steatorrhea — G.W. BO-LINN AND J.S. FORDTRAN — 319

Immunochemical Characterization of Gastrinlike and Cholecystokininlike Peptides Released in Dogs in Response to a Peptone Meal — M.M. WOLFE AND J.E. McGUIGAN — 323

Effect of Naloxone on Feedback Regulation of Small Bowel Transit by Fat — R.I. KINSMAN AND N.W. READ — 335

Failure of Pancreatic Polypeptide Release in Congenitally Obese Mice — B.Q. JIA AND I.L. TAYLOR — 338

Calcitonin Gene-Related Peptide: Potent Peripheral Inhibitor of Gastric Acid Secretion in Rats and Dogs — Y. TACHÉ, T. PAPPAS, M. LAUFFENBURGER, Y. GOTO, J.H. WALSH, AND H. DEBAS — 344

Bone Histomorphometry and Vitamin D Status After Biliopancreatic Bypass for Obesity	J.E. COMPSTON, S. VEDI, E. GIANETTA, G. WATSON, D. CIVALLERI, AND N. SCOPINARO	350
Gastric Emptying and Small Intestinal Transit in the Piebald Mouse Model for Hirschsprung's Disease	H.J. COOKE, K. PITMAN, G. STARR, AND J.D. WOOD	357
Lithium Chloride: Protective and Antisecretory Properties in Rats	R.K.H. WONG, B. BOEDEKER, T.M. HICKEY, D.S. WILKINSON, AND L.F. JOHNSON	362
Radioimmunoassay, Pharmacokinetics, and Neuronal Release of Gastrin-Releasing Peptide in Anesthetized Pigs	S. KNUHTSEN, J.J. HOLST, U. KNIGGE, M. OLESEN, AND O.V. NIELSEN	372
A Role for Milk Phospholipids in Protection Against Gastric Acid. Studies in Adult and Suckling Rats	E.J. DIAL AND L.M. LICHTENBERGER	379
Influence of Coronavirus (Transmissible Gastroenteritis) Infection on Jejunal Myolectrical Activity of the Neonatal Pig	C.F. BURROWS AND A.M. MERRITT	386
Prostacyclin Inhibits Gastric Emptying and Small Intestinal Transit in Rats and Dogs	M.J. RUWART AND B.D. RUSH	392
Decrease in Alkaline Secretion During Duodenal Ulceration Induced by Mepirizole in Rats	K. TABATA, E.D. JACOBSON, M-H. CHEN, R.F. MURPHY, AND S.N. JOFFE	396
Resting Energy Expenditure in Malnourished Patients With and Without Cancer	L. LINDMARK, K. BENNEGÅRD, E. EDÉN, L. EKMAN, T. SCHERSTÉN, G. SVANINGER, AND K. LUNDHOLM	402
16,16-Dimethyl Prostaglandin E_2 Stimulates Galactose and Glucosamine But Not Serine Incorporation in Rat Gastric Mucous Cells	T. JENTJENS, H.L. SMITS, AND G.J. STROUS	409
CASE REPORTS		
Recurrent Hemorrhage Into the Pancreatic Duct From a Splenic Artery Aneurysm	P.C. HARPER, R.L. GAMELLI, AND M.D. KAYE	417
Disseminated Gastrointestinal Sarcoidosis. Case Report and Review of the Literature	R. SPRAGUE, P. HARPER, S. McCLAIN, T. TRAINER, AND W. BEEKEN	421
An Unusual Presentation of Wegener's Granulomatosis Mimicking Inflammatory Bowel Disease	R.J. SOKOL, M.K. FARRELL, AND A.J. McADAMS	426
EDITORIALS		
Through the Sigmoidoscope Brightly	D.R. LIPSITT	433
How To Measure Cholecystokinin in Plasma?	J.F. REHFELD	434
Duodenal Mucosal Protection: The Basic Truth?	G.L. KAUFFMAN, JR.	438
SELECTED SUMMARIES		
Cost-Effectiveness—At What Intellectual Price?		441
Polyamines: A Story of Which Came First—The Chicken or the Egg?		442
Does the Gut Leak?		443
The Dilemma of Dysplasia in Inflammatory Bowel Disease		444
The Right Site for Colon Cancer		445
Nucleation of Cholesterol Gallstones: Too Much of a Nucleation Factor or Too Little of a Nucleation Inhibitor?		446
To Shunt or Not To Shunt?		446
BOOK REVIEWS		448

TRAINING AND EDUCATION IN GASTROENTEROLOGY
List of Available Training Programs 452
CORRESPONDENCE 478
CORRECTION 482
NOTICES 483
CLASSIFIED ADS 484

NO. 3, SEPTEMBER 1984

AMERICAN GASTROENTEROLOGICAL ASSOCIATION

Our New President—Norton J. Greenberger — M.S. McPHEE — 485

ALIMENTARY TRACT

Endoscopic Screening for Gastric Stump Cancer—Would It Be Beneficial? A Hypothetic Cohort Study — A. SONNENBERG — 489

Electron Microscopic Identification of Histidine Decarboxylase-Containing Endocrine Cells of the Rat Gastric Mucosa. An Immunohistochemical Analysis — H. KUBOTA, Y. TAGUCHI, M. TOHYAMA, N. MATSUURA, S. SHIOSAKA, T. ISHIHARA, T. WATANABE, Y. SHIOTANI, AND H. WADA — 496

Effect of Senokot on Rat Intestinal Electrolyte Transport. Evidence of Ca^{++} Dependence — M. DONOWITZ, J. WICKS, L. BATTISTI, G. PIKE, AND R. DeLELLIS — 503

Noradrenergic Nerves in Human Small Intestine. Distribution and Ultrastructure — I.J. LLEWELLYN-SMITH, J. B. FURNESS, P.E. O'BRIEN, AND M. COSTA — 513

Pancreatic Polypeptide Release: Role of Stimulants of Exocrine Pancreatic Secretion in Dogs — C. BEGLINGER, I.L. TAYLOR, M.I. GROSSMAN, AND T.E. SOLOMON — 530

Trophic Effect of Pentagastrin on Normal and Regenerating Parietal Cells. A Light and Electron Microscopic Study in Rats — H. BLOM AND T. ERIKOINEN — 537

Bioassay of Plasma Cholecystokinin in Rats: Effects of Food, Trypsin Inhibitor, and Alcohol — R.A. LIDDLE, I.D. GOLDFINE, AND J.A. WILLIAMS — 542

Effect of 13-Norleucin Motilin on Water and Ion Transport in the Human Jejunum — G.W. KACHEL, L.L. FRASE, W. DOMSCHKE, W.Y. CHEY, AND G.J. KREJS — 550

Stimulation of Gastrin Secretion In Vitro by Intraluminal Chemicals: Regulation by Intramural Cholinergic and Noncholinergic Neurons — B. SAFFOURI, J.W. DuVAL, AND G.M. MAKHLOUF — 557

Role of the Microcirculation in Ethanol-Induced Mucosal Injury in the Dog — P.R. KVIETYS, W.G. PATTERSON, J.M. RUSSELL, J.A. BARROWMAN, AND D.N. GRANGER — 562

Selective Myenteric Neuronal Denervation of the Rat Jejunum. Differential Control of the Propagation of Migrating Myoelectric Complex and Basic Electric Rhythm — D.A. FOX AND P. BASS — 572

Rice Flour, Breath Hydrogen, and Malabsorption — P. KERLIN, L. WONG, B. HARRIS, AND S. CAPRA — 578

Pancreatic Bicarbonate Response to Food-Bound Hydrogen Ion Along the Gut — J.H. MEYER AND A.S. FINK — 586

Effect of Meal Composition on Calcium Absorption: Enhancing Effect of Carbohydrate Polymers — S.E. KELLY, K. CHAWLA-SINGH, J.H. SELLIN, N.J. YASILLO, AND I.H. ROSENBERG — 596

Methane Production and Colon Cancer — J.M. PIQUÉ, M. PALLARÉS, E. CUSÓ, J. VILAR-BONET, AND M.A. GASSULL — 601

Cavitation of Mesenteric Lymph Nodes, Splenic Atrophy, and a Flat Small Intestinal Mucosa. Report of Six Cases — C. MATUCHANSKY, R. COLIN, J. HEMET, G. TOUCHARD, P. BABIN, C. EUGENE, A. BERGUE, P. ZEITOUN, AND M.A. BARBOTEAU — 606

LIVER AND BILIARY TRACT

Comparison of the Extrahepatic Bile Duct Size Measured by Ultrasound and by Different Radiographic Methods — C. NIEDERAU, A. SONNENBERG, AND J. MUELLER — 615

Intermittency of Cholesterol Crystals in Duodenal Bile From Gallstone Patients — J.W. MARKS AND G. BONORRIS — 622

Diagnosis of Hemochromatosis in Young Subjects: Predictive Accuracy of Biochemical Screening Tests — M.L. BASSETT, J.W. HALLIDAY, R.A. FERRIS, AND L.W. POWELL — 628

Inhibition of Biliary Phospholipid and Cholesterol Secretion by Bilirubin in the Sprague–Dawley and Gunn Rat — M.D. APSTEIN — 634

Time-Courses of Hepatocellular Hyperpolarization and Cyclic Adenosine 3′,5′-Monophosphate Accumulation After Partial Hepatectomy in the Rat. Effects of Fasting for 48 Hours and Intravenous Injection of Glucose — M. PALOHEIMO, J. LINKOLA, M. LEMPINEN, AND M. FOLKE — 639

Biliary Secretion and Hepatic Metabolism of Taurine-Conjugated 7α-Hydroxy and 7β-Hydroxy Bile Acids in the Dog. Defective Hepatic Transport and Bile Hyposecretion — M. NAKAGAKI, R.G. DANZINGER, A.F. HOFMANN, AND R.A. DiPIETRO — 647

Hepatocellular Carcinoma in Primary Biliary Cirrhosis: Detection by α-Fetoprotein Estimation — W.M. MELIA, P.J. JOHNSON, J. NEUBERGER, S. ZAMAN, B.C. PORTMANN, AND R. WILLAMS — 660

Physiologic Determinants of Biliary Calcium Secretion in the Dog — S.A. CUMMINGS AND A.F. HOFMANN — 664

Effect of Pregnancy on Gallbladder Contractility in the Guinea Pig — J.P. RYAN — 674

Pancreatic Hormone Profiles and Metabolism Posthepatectomy in the Dog. Evidence for a Hepatotrophic Role of Insulin, Glucagon, and Pancreatic Polypeptide — D.M. COHEN, J.B. JASPAN, K.S. POLONSKY, E.G. LEVER, AND A.R. MOOSSA — 679

Diabetes Mellitus in Chronic Active Hepatitis and Cirrhosis — M.E. KINGSTON, M.A. ALI, M. ATIYEH, AND R.J. DONNELLY — 688

Iron Overload in Three Generations of a Family With Hemoglobin Olympia — G.A. WEAVER, S. RAHBAR, C.A. ELLSWORTH, P.A. de ALARCON, G.B. FORBES, AND E. BEUTLER — 695

CASE REPORTS

Development of Collagenous Colitis in Sequential Biopsy Specimens — P.S. TEGLBJÆRG, E.H. THAYSEN, AND H.H. JENSEN — 703

Proctitis After Fecal Diversion in Crohn's Disease and Its Elimination With Reanastomosis: Implications for Surgical Management. Report of Four Cases — B.I. KORELITZ, L.J. CHESKIN, N. SOHN, AND S.C. SOMMERS — 710

Treatment of Chronic Secretory Diarrhea of Unknown Origin by Lithium Carbonate — C. OWYANG — 714

Eighty Months Persistence of Poorly Differentiated Early Gastric Cancer — V.F. ECKARDT, D. WILLEMS, G. KANZLER, W. REMMELE, U. BETTENDORF, AND W. PAULUS — 719

EDITORIALS

Evaluating a Markov Chain Analysis — J.D. ELASHOFF — 725

Methane and Colorectal Cancer — J.A. PERMAN — 728

SELECTED SUMMARIES

No Cure at CURE — 731

Would You Believe the Tongue?		732
Resizing the Pancreas		733
It's All Timing		734
Adjuvant Therapy in Colon Cancer		735
Production of Antibody to Hepatitis B Using Only Antibodies That Are Directed Against Anti-Hepatitis B Antibodies		736
BOOK REVIEWS		738
CORRESPONDENCE		744
CORRECTIONS		747
NOTICES		748
CLASSIFIED ADS		748

NO. 4, OCTOBER 1984

AMERICAN GASTROENTEROLOGICAL ASSOCIATION		
Presentation of the 1984 Julius Friedenwald Medal of the American Gastroenterological Association to Dr. Henry David Janowitz	J.B. KIRSNER	749
LIVER AND BILIARY TRACT		
Endoscopic Sphincterotomy: Follow-up Evaluation of Effects on the Sphincter of Oddi	J.E. GEENEN, J. TOOULI, W.J. HOGAN, W.J. DODDS, E.T. STEWART, P. MAVRELIS, D. RIEDEL, AND R. VENU	754
Bile Duct Dyskinesia. Clinical and Manometric Study	H. MESHKINPOUR, M. MOLLOT, G.B. ECKERLING, AND L. BOOKMAN	759
Ultrastructural Immunocytochemical Localization of the Asialoglycoprotein Receptor in Rat Hepatocytes	M. MIZUNO, W.R. BROWN, AND J.M. VIERLING	763
Plasma Cysteine, Cystine, and Glutathione in Cirrhosis	R.K. CHAWLA, F.W. LEWIS, M.H. KUTNER, D.M. BATE, R.G.B. ROY, AND D. RUDMAN	770
Acetaldehyde and Lactate Stimulate Collagen Synthesis of Cultured Baboon Liver Myofibroblasts	E-R. SAVOLAINEN, M.A. LEO, R. TIMPL, AND C.S. LIEBER	777
Taurocholate Accelerates Bile Canalicular Contractions in Isolated Rat Hepatocytes	M. MIYAIRI, C. OSHIO, S. WATANABE, C.R. SMITH, I.M. YOUSEF, AND M.J. PHILLIPS	788
Fasting Canine Biliary Secretion and the Sphincter of Oddi	R.B. SCOTT, S.M. STRASBERG, T.Y. EL-SHARKAWY, AND N.E. DIAMANT	793
Polymer Networks in Pigment and Cholesterol Gallstones Assessed by Equilibrium Swelling and Infrared Spectroscopy	H. OHKUBO, J.D. OSTROW, S.H. CARR, AND R.V. REGE	805
ALIMENTARY TRACT		
Endoscopic Nd:YAG Laser Therapy as Palliative Treatment for Advanced Adenocarcinoma of the Gastric Cardia	D. FLEISCHER AND M.V. SIVAK	815
Rabbit Mucosal Receptors for an Enteropathogenic *Escherichia coli* Strain: Appearance of Bacterial Receptor Activity at Weaning	C.P. CHENEY AND E.C. BOEDEKER	821
Distribution of Immunoreactive Alkaline Phosphatase in the Adult Rat Ileum by Immunoperoxidase Staining at the Light Microscopic Level	H.M. SHIELDS, M.L. BATES, S.T. YEDLIN, AND C.J. BEST	827
Distinctive Patterns of Interdigestive Motility at the Canine Ileocolonic Junction	E.M.M. QUIGLEY, S.F. PHILLIPS, AND J. DENT	836

Effect of Intravenous Somatostatin on Stool Output in Diarrhea Due to *Vibrio cholerae*	A.M. MOLLA, K. GYR, P.K. BARDHAN, AND A. MOLLA	845
Esophageal Lewy Bodies Associated With Ganglion Cell Loss in Achalasia. Similarity to Parkinson's Disease	S.J. QUALMAN, H.M. HAUPT, P. YANG AND S.R. HAMILTON	848
Motility of the Terminal Ileum and Ileocecal Sphincter in Healthy Humans	E.M.M. QUIGLEY, T.J. BORODY, S.F. PHILLIPS, M. WIENBECK, R.L. TUCKER, AND A. HADDAD	857
Esophageal Contraction Pressures Are not Affected by Normal Menstrual Cycles	J.L. NELSON, III, J.E. RICHTER, D.N. JOHNS, D.O. CASTELL, AND G.M. CENTOLA	867
Comparison of Airway Responses Following Tracheal or Esophageal Acidification in the Cat	D.N. TUCHMAN, J.T. BOYLE, A.I. PACK, J. SCHWARTZ, M. KOKONOS, A.R. SPITZER, AND S. COHEN	872
Diabetes in the Rat Is Associated With a Reversible Postreceptor Defect in Cholecystokinin Action	M. OTSUKI, I.D. GOLDFINE, AND J.A. WILLIAMS	882
Patients With Active Crohn's Disease Have Elevated Serum Antibodies to Antigens of Seven Enteric Bacterial Pathogens	M.J. BLASER, R.A. MILLER, J. LACHER, AND J.W. SINGLETON	888
Gastric Emptying of Solid Radiopaque Markers: Studies in Healthy Subjects and Diabetic Patients	M. FELDMAN, H.J. SMITH, AND T.R. SIMON	895
Influence of Vagotomy on Mucosal Protection Against Alcohol-Induced Gastric Damage in the Rat	J.M. HENAGAN, G.S. SMITH, E.R. SEIDEL, AND T.A. MILLER	903
Motilin Is a Digestive Hormone in the Dog	P. POITRAS	909
Sensory Substance P Innervation of the Stomach and Pancreas. Demonstration of Capsaicin-Sensitive Sensory Neurons in the Rat by Combined Immunohistochemistry and Retrograde Tracing	K.A. SHARKEY, R.G. WILLIAMS, AND G.J. DOCKRAY	914
Abnormalities of Esophageal and Gastric Emptying in Progressive Systemic Sclerosis	G.J. MADDERN, M. HOROWITZ, G.G. JAMIESON, B.E. CHATTERTON, P.J. COLLINS, AND P. ROBERTS-THOMSON	922
Adenocarcinoma and Barrett's Esophagus. An Overrated Risk?	S.J. SPECHLER, A.H. ROBBINS, H.B. RUBINS, M.E. VINCENT, T. HEEREN, W.G. DOOS, T. COLTON, AND E.M. SCHIMMEL	927
Administration of Purified Colonization Factor Antigens (CFA/I, CFA/II) of Enterotoxigenic *Escherichia coli* to Volunteers. Response to Challenge With Virulent Enterotoxigenic *Escherichia coli*	D.G. EVANS, D.Y. GRAHAM, AND D.J. EVANS, JR., with the assistance of A. OPEKUN	934
CASE REPORTS		
Sarcoidlike Granulomas as an Early Manifestation of Whipple's Disease	C. CHO, W.G. LINSCHEER, M.A. HIRSCHKORN, AND K. ASHUTOSH	941
Ultrasonography and Computed Tomography in Focal Fatty Liver. Report of Two Cases With Special Emphasis on Changing Appearances Over Time	J.E. CLAIN, D.H. STEPHENS, AND J.W. CHARBONEAU	948
Giant Fibrovascular Polyp of the Esophagus	J. PATEL, R.W. KIEFFER, M. MARTIN, AND G.R. AVANT	953
Fistulation to the Pancreatic Duct Complicating Duodenal Peptic Ulcer	J.R. MERRILL	957
PROGRESS ARTICLE		
Calcium Channels in Smooth Muscle	H. KARAKI AND G.B. WEISS	960
EDITORIALS		
Taking the Pressure off the Sphincter of Oddi	D.A. BURNETT	971
Lasers in the GI Cancer War and on Other Fronts	D.M. JENSEN	974

SELECTED SUMMARIES

Relationship of Gastric Acid to Duodenal Alkali 977

Prostaglandin Therapy in Acute Pancreatitis—Friend or Foe! 977

Epidemiologic Hors d'Oeuvres 978

Sugar, Alcohol, Weight, and Gallstones 979

Alterations in Hepatic Plasma Membranes Induced by Spironolactone 980

Use of Soluble Factors to Prevent Intestinal Granulomas in Mice 981

BOOK REVIEWS 982

CORRESPONDENCE 985

CORRECTION 988

NOTICES 989

CLASSIFIED ADS 990

NO. 5, NOVEMBER 1984

ALIMENTARY TRACT

Glycoprotein Composition of Colonic Mucosa. Specific Alterations in Ulcerative Colitis — D.K. PODOLSKY AND K.J. ISSELBACHER — 991

Isoproterenol Induces Activity Fronts in Fed Dogs Through Somatostatin Release — R.W. SUMMERS, A. FLATT, R.J. YANDA, AND T. YAMADA — 999

Somatostatin Induces Ectopic Activity Fronts of the Migrating Motor Complex via a Local Intestinal Mechanism — J. HOSTEIN, J. JANSSENS, G. VANTRAPPEN, T.L. PEETERS, M. VANDEWEERD, AND G. LEMAN — 1004

Differences in Cytochrome c Oxidase Capacity in Smooth Muscle of Opossum Esophagus and Lower Esophageal Sphincter — B.A. ROBISON, W.H. PERCY, AND J. CHRISTENSEN — 1009

Gas Production After Reaction of Sodium Bicarbonate and Hydrochloric Acid — J.S. FORDTRAN, S.G. MORAWSKI, C.A. SANTA ANA, AND F.C. RECTOR, JR. — 1014

Occurrence of Specific Secretory Immunoglobulin A in Bile After Inoculation of *Giardia lamblia* Trophozoites Into Rat Duodenum — T.J. LOFTNESS, S.L. ERLANDSEN, I.D. WILSON, AND E.A. MEYER — 1022

Effect of Oral Omeprazole on Serum Gastrin and Serum Pepsinogen I Levels — H.P.M. FESTEN, J.C. THIJS, C.B.H.W. LAMERS, J.M.B.J. JANSEN, G. PALS, R.R. FRANTS, J. DÉFIZE, AND S.G.M. MEUWISSEN — 1030

Influence of Morphine Tolerance and Withdrawal on Intestinal Salt and Water Transport in the Rat In Vivo and In Vitro — G. WARHURST, G.S. SMITH, N. HIGGS, A. TONGE, AND L.A. TURNBERG — 1035

Colonic Secretion Mediated by Prostaglandin E_2 and 5-Hydroxytryptamine May Contribute to Diarrhea due to Morphine Withdrawal in the Rat — E. BEUBLER, K. BUKHAVE, AND J. RASK-MADSEN — 1042

Enhancement of the Cyclic Motor Activity of the Ovine Small Intestine by Lysergic Acid Derivatives. Mechanism and Significance — Y. RUCKEBUSCH — 1049

Neuroeffector Transmission of the Hepatic and Pancreatico-Duodenal Isolated Arteries of the Dog — G. VARGA, M. PAPP, L.G. HÁRSING, JR., I.E. TÓTH, G. GAÁL, G.T. SOMOGYI, AND E.S. VIZI — 1056

Ultrastructure of Inhibited Parietal Cells in the Rat	H.F. HELANDER AND G.W. SUNDELL	1064
Enzyme Replacement Therapy for Primary Adult Lactase Deficiency. Effective Reduction of Lactose Malabsorption and Milk Intolerance by Direct Addition of β-Galactosidase to Milk at Mealtime	J.L. ROSADO, N.W. SOLOMONS, R. LISKER, AND H. BOURGES with the technical assistance of G. ANRUBIO, A. GARCÍA, R. PEREZ-BRICEÑO, AND E. AIZUPURU	1072
Histologic and Microcirculatory Changes in Alcohol-Induced Gastric Lesions in the Rat: Effect of Prostaglandin Cytoprotection	P.H. GUTH, G. PAULSEN, AND H. NAGATA	1083
Structural Features of and Cholesterol Distribution in M-Cell Membranes in Guinea Pig, Rat, and Mouse Peyer's Patches	J.L. MADARA, W.A. BYE, AND J.S. TRIER	1091
Effect of Opiate and Adrenergic Blockers on the Gut Motor Response to Centrally Acting Stimuli	V. STANGHELLINI, J-R. MALAGELADA, A.R. ZINSMEISTER, V.L.W. GO, AND P.C. KAO	1104
Variations in Gastric and Duodenal Motility During Gastric Emptying of Liquid Meals in Humans	C.P. DOOLEY, J.B. REZNICK, AND J.E. VALENZUELA	1114
LIVER AND BILIARY TRACT		
Increased Blood Flow Through the Portal System in Cirrhotic Rats	J. VOROBIOFF, J.E. BREDFELDT, AND R.J. GROSZMANN	1120
Interaction of Hemolysis and Genotype on Ionized Calcium in Bile of Mice With Hemolysis-Induced Gallstones	B.W. TROTMAN, N. LAKSHMINARAYANAIAH, S.E. BERNSTEIN, S.A. KAPLAN, AND C. MARGULIES	1127
Quantitative Analysis of Smooth Endoplasmic Reticulum Proliferation in Hepatocytes of Early Postnatal and Adult Mice Treated With Phenobarbital	K. KANAI, S. KANAMURA, M. ASADA-KUBOTA, J. WATANABE, AND M. OKA	1131
Kinetics of Glucose Metabolism in Relation to Insulin Concentrations in Patients With Alcoholic Cirrhosis and in Healthy Persons	J. IVERSEN, H. VILSTRUP, AND N. TYGSTRUP	1138
Role of Endoscopic Retrograde Cholangiopancreatography in the Diagnosis and Treatment of Choledochocele	R.P. VENU, J.E. GEENEN, W.J. HOGAN, W.J. DODDS, S.W. WILSON, E.T. STEWART, AND K.H. SOERGEL	1144
Formation of Hilar Collaterals or Cavernous Transformation After Portal Vein Obstruction by Hepatocellular Carcinoma. Observations in Ten Patients	K. OHNISHI, K. OKUDA, T. OHTSUKI, T. NAKAYAMA, Y. HIYAMA, S. IWAMA, N. GOTO, Y. NAKAJIMA, N. MUSHA, AND T. NAKASHIMA	1150
Change in Bile Duct Pressure Responses After Cholecystectomy: Loss of Gallbladder as a Pressure Reservoir	M. TANAKA, S. IKEDA, AND F. NAKAYAMA	1154
Fibronectin Concentration in Ascites Differentiates Between Malignant and Nonmalignant Ascites	J. SCHÖLMERICH, B.A. VOLK, E. KÖTTGEN, S. EHLERS, AND W. GEROK	1160
CASE REPORTS		
Gastric Antral Vascular Ectasia: The Watermelon Stomach	M. JABBARI, R. CHERRY, J.O. LOUGH, D.S. DALY, D.G. KINNEAR, AND C.A. GORESKY	1165
Aphthous Ulceration in Diversion Colitis. Clinical Implications	L.B. LUSK, J. REICHEN, AND J.S. LEVINE	1171
Tracheoesophageal Fistula: A Serious Complication of Infectious Esophagitis	W.F. OBRECHT, JR., J.E. RICHTER, G.A. OLYMPIO, AND D.W. GELFAND	1174
Pulmonary Hypertension Complicating Hepatocellular Carcinoma	I.R. WILLETT, R.C. SUTHERLAND, M.F. O'ROURKE, AND F.J. DUDLEY	1180
Hydralazine-Induced Cholangitis	J.L. MYERS AND N.A. AUGUR, JR.	1185
CLINICAL TRENDS AND TOPICS		
"Natural History" of Crohn's Disease. An Analytic Review of the Placebo Lesson	S. MEYERS AND H.D. JANOWITZ	1189

EDITORIAL

Ulcerative Colitis: A Specific Mucin Defect? — Y.S. KIM AND J.C. BYRD — 1193

SELECTED SUMMARIES

Update on Highly Selective Vagotomy — 1196

Asymptomatic *Giardia* in Day Care Centers — 1197

Sterol Synthesis From Biliary Squalene in the Rat Jejunum — 1198

Estrogen, Pregnancy, and Gallstones — 1198

Cancer Detection in Ulcerative Colitis Using Flow Cytometry — 1199

Additional Support for the Adenoma-Adenocarcinoma Sequence — 1200

BOOK REVIEWS — 1202

CORRECTIONS — 1205

CORRESPONDENCE — 1206

NOTICES — 1211

CLASSIFIED ADS — 1212

NO. 6, DECEMBER 1984

LIVER AND BILIARY TRACT

Antibody to the Hepatitis B Virus-Associated Delta-Agent in Immune Serum Globulins — A. PONZETTO, J.H. HOOFNAGLE, AND L.B. SEEFF — 1213

Hyperasialoglycoproteinemia in Patients With Chronic Liver Diseases and/or Liver Cell Carcinoma. Asialoglycoprotein Receptor in Cirrhosis and Liver Cell Carcinoma — T. SAWAMURA, H. NAKADA, H. HAZAMA, Y. SHIOZAKI, Y. SAMESHIMA, AND Y. TASHIRO — 1217

Development and Prognosis of Histologic Cirrhosis in Corticosteroid-Treated Hepatitis B Surface Antigen-Negative Chronic Active Hepatitis — G.L. DAVIS, A.J. CZAJA, AND J. LUDWIG — 1222

Therapeutic Trial of Thromboxane Synthesis Inhibition in the Hepatorenal Syndrome — R.D. ZIPSER, I. KRONBORG, W. RECTOR, T. REYNOLDS, AND G. DASKALOPOULOS — 1228

Characterization and Culture of Sinusoidal Endothelium From Normal Rat Liver: Lipoprotein Uptake and Collagen Phenotype — M.G. IRVING, F.J. ROLL, S. HUANG, AND D.M. BISSELL — 1233

Dual Mechanism of Inhibition of Rat Liver Uroporphyrinogen Decarboxylase Activity by Ferrous Iron: Its Potential Role in the Genesis of Porphyria Cutanea Tarda — S.K. MUKERJI, N.R. PIMSTONE, AND M. BURNS — 1248

ALIMENTARY TRACT

Intestinal Transit of Solid and Liquid Components of a Meal in Health — J-R. MALAGELADA, J.S. ROBERTSON, M.L. BROWN, M. REMINGTON, J.A. DUENES, G.M. THOMFORDE, AND P.W. CARRYER — 1255

Gastric Emptying and Sieving of Solid Food and Pancreatic and Biliary Secretions After Solid Meals in Patients With Nonresective Ulcer Surgery — E.A. MAYER, J.B. THOMSON, D. JEHN, T. REEDY, J. ELASHOFF, C. DEVENY, AND J.H. MEYER — 1264

Effect of Sodium Taurocholate on the Human Gastric Mucosa at Acid and Neutral pH's — A.I. STERN, D.L. HOGAN, AND J.I. ISENBERG — 1272

Effects of Proximal Gastric Vagotomy and Antrectomy on Parietal Cell Function in Humans — R. LETH, B. ELANDER, E. FELLENIUS, L. OLBE, AND U. HAGLUND — 1277

Effect of Cimetidine on Net Ion Fluxes Across the Rat Gastric Mucosa During Mucosal Damage After Gastric Ischemia and After Intravenous Acetylsalicylic Acid	G. PIPKIN, C.A. PRICE, AND M.E. PARSONS	1283
Influence of Transsphincteric Fluid Flow on Spike Burst Rate of the Opossum Sphincter of Oddi	I. TAKAHASHI, W.J. DODDS, Z. ITOH, W.J. HOGAN, AND M.K. KERN	1292
Abnormal Rectoanal Function in Children Recovered From Chronic Constipation and Encopresis	V.A. LOENING-BAUCKE	1299
Glucose-Insulin Interactions on Exocrine Secretion From the Perfused Rat Pancreas	R. BRUZZONE, E.R. TRIMBLE, A. GJINOVCI, AND A.E. RENOLD	1305
Cytoskeleton of Intestinal Goblet Cells in Rabbit and Monkey. The Theca	R.D. SPECIAN AND M.R. NEUTRA	1313
Hyposplenism and Gluten-Sensitive Enteropathy. Natural History, Incidence, and Relationship to Diet and Small Bowel Morphology	J.G. O'GRADY, F.M. STEVENS, B. HARDING, T.A. O'GORMAN, B. McNICHOLL, AND C.F. McCARTHY	1326
Sensitive Radioimmunoassay for Measurement of Circulating Peptide YY	M-H. CHEN, A. BALASUBRAMANIAN, R.F. MURPHY, K. TABATA, J.E. FISCHER, I-W. CHEN, AND S.N. JOFFE	1332
Effect of Indomethacin on Gastric Acid and Bicarbonate Secretion in Humans	M. FELDMAN AND T.J. COLTURI	1339
Quantitative Assay for Acute Intestinal Inflammation Based on Myeloperoxidase Activity. Assessment of Inflammation in Rat and Hamster Models	J.E. KRAWISZ, P. SHARON, AND W.F. STENSON	1344
Physiologic Investigation of Primary Chronic Constipation in Children: Comparison With the Barium Enema Study	P. MEUNIER, D. LOUIS, AND M. JAUBERT de BEAUJEU	1351
Fasting Breath Hydrogen Concentration: Normal Values and Clinical Application	J.A. PERMAN, S. MODLER, R.G. BARR, AND P. ROSENTHAL	1358
CASE REPORTS		
Total Colonic Aganglionosis Initially Diagnosed in an Adolescent	M.P. LEFEBVRE, L.L. LEAPE, D.A. POHL, H. SAFAII, AND R.J. GRAND	1364
Marked Hepatic Congestion Caused by a Thoracoabdominal Aneurysm	E. SIGAL, A. POGANY, AND I.S. GOLDMAN	1367
Spontaneous *Yersinia enterocolitica* Peritonitis in Idiopathic Hemochromatosis	J-P. CAPRON, D. CAPRON-CHIVRAC, H. TOSSOU, J. DELAMARRE, AND F. EB	1372
Management of Esophageal Stenosis in Recessive Dystrophic Epidermolysis Bullosa	G.E. FEURLE, H. WEIDAUER, G. BALDAUF, T. SCHULTE-BRAUCKS, AND I. ANTON-LAMPRECHT	1376
PROGRESS ARTICLE		
Perspectives on Gastrointestinal Surgery for Treatment of Morbid Obesity: The Lesson Learned	S.A. ADIBI AND R.T. STANKO	1381
EDITORIAL		
Role of Eicosanoids in the Control of Renal Function in Severe Hepatic Disease	M.J. DUNN	1392
SELECTED SUMMARIES		
Glucuronidation of Bile Acids Does Not Necessarily Protect Against Cholestasis		1396
Malnutrition in Alcoholic Hepatitis		1396
Na^+/H^+ Exchange in Rabbit Ileal Brush Border Membranes		1397

Schwann Cell Disease in Diabetic Enteropathy 1398
Effect of Secretin on the Stomach 1398
Hepatic Resection for Metastatic Colon Cancer 1399
Hepatic Artery Infusion Chemotherapy in Colorectal Cancer 1400
BOOK REVIEWS 1402
CORRESPONDENCE 1404
NOTICES 1408
CLASSIFIED ADS 1409
SPECIAL NOTICE 1410
Author Index to Volume 87 1415
Subject Index to Volume 87 1424